

To: David Crow[David.Crow@WestonSolutions.com]
From: Foster, Althea
Sent: Fri 8/7/2015 7:52:09 PM
Subject: FW: Water Quality Criteria - Animas River
Animas River (NM) - WQC.xlsx

From: McCoy, Melinda
Sent: Friday, August 07, 2015 2:36 PM
To: Brown, Jamesr; Kirkland, Robert; McCasland, Mark; Garcia, David; Restivo, Angela
Cc: Foster, Althea; Crossland, Ronnie; Webster, Susan; Martinez, Maria; Crocker, Philip; Nelson, Russell
Subject: Water Quality Criteria - Animas River

Hi Everyone,

Earlier this morning, David and Maria asked me to compile the WQS applicable to the Animas River, and to identify any previous water quality impairments (303d listings) identified. Earlier today, I sent them a list of the applicable designated uses and the 303(d) listing information (see emails forwarded below).

Additionally, I have compiled an Excel spreadsheet showing the water quality criteria applicable to the two Animas River segments. Please see attached Excel file.

Thanks,

Melinda

Melinda McCoy, Environmental Scientist

Water Quality Standards Program

USEPA Region 6 (6WQ-EW)

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From: McCoy, Melinda
Sent: Friday, August 07, 2015 11:31 AM
To: Garcia, David; Martinez, Maria; Brown, Jamesr
Cc: Nelson, Russell
Subject: Animas River WQS

Hi David and Maria,

The Animas River is a considered classified water. It is split into 2 segments between the NM/CO state line and it's confluence with the San Juan River. Estes Arroyo is the dividing line between the 2 segments. (See NMAC 20.6.4.403-404).

The table below shows the designated uses applicable to these 2 segments:

Animas from confluence with San Juan upstream to Estes Arroyo	Animas from Estes Arroyo upstream to NM/CO line
Marginal coldwater and warmwater	Coldwater
Primary Contact	Primary Contact
Public Water Supply	Public Water Supply
Industrial Water Supply	Industrial Water Supply
Irrigation	Irrigation

Livestock watering
Wildlife Habitat

Livestock watering
Wildlife Habitat

The criteria applicable to each of these designated uses can be found in NMAC 6.4.900 (see attachment). I can compile all of this into an Excel spreadsheet, but for the sake of time, I'm just including the attachment right now.

Note that the DO, temperature, and pH criteria differ for each aquatic life use:

Coldwater: dissolved oxygen 6.0 mg/L or more, 6T3 temperature 20°C (68°F), maximum temperature 24°C (75°F) and pH within the range of 6.6 to 8.8. Where a single segment-specific temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature and no 6T3 temperature applies.

Marginal Coldwater: dissolved oxygen 6 mg/L or more, 6T3 temperature 25°C (77°F), maximum temperature 29°C (84°F) and pH within the range from 6.6 to 9.0. Where a single segment-specific

temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature and no 6T3 temperature applies.

Warmwater: dissolved oxygen 5 mg/L or more, maximum temperature 32.2°C (90°F) and pH within the range of 6.6 to 9.0. Where a segment-specific temperature criterion is indicated in 20.6.4.101-899 NMAC, it is the maximum temperature.

I'll send you the 303d information as soon as I gather it.

Thanks,

Melinda

	2404_00	Arroyo to So. Ute Indian Tribe bnd)			Completed	30			
							00:00:00		
14080104	has	NM- Animas River (Estes	18.8 MILES	Phosphorus,5/5B	TMDL		2013-09-2012		
	2404_00	Arroyo to So. Ute Indian Tribe bnd)		total	Completed	30			
							00:00:00		
					303(d)				
14080104	has	NM- Animas River (Estes	18.8 MILES	Temperature5/5B	List (no		1998		
	2404_00	Arroyo to So. Ute Indian Tribe bnd)			TMDL in				
					place)				
					303(d)				
14080104	has	NM- Animas River (Estes	18.8 MILES	Turbidity 5/5B	List (no		2012		
	2404_00	Arroyo to So. Ute Indian Tribe bnd)			TMDL in				
					place)				
14080104	has	NM- Animas River (San	16.8 MILES	E. coli 4A	TMDL		2013-09-2012		
	2403_00	Arroyo River to Estes Arroyo)			Completed	30			
							00:00:00		
14080104	has	NM- Animas River (San	16.8 MILES	Nitrate/Eutrophication	TMDL		2006-01-2004		
	2403_00	Arroyo River to Estes Arroyo)			Completed	17			
							00:00:00		
14080104	has	NM- Animas River (San	16.8 MILES	Temperature4A	TMDL		2013-09-2012		
	2403_00	Arroyo River to Estes Arroyo)			Completed	30			
							00:00:00		
		NM-			303(d)				
14080104	has	9000 Lake Farmington (Beeline Reservoir)	198ACRES	Mercury in fish tissue 5/5A	List (no		2004		
					TMDL in				
					place)				

Category Description

4A Available data and/or information indicate that at least one designated or existing use is not being supported, but a Total Maximum Daily Load (TMDL) is not needed because TMDLs have been already been established.

5A Available data and/or information indicate that at least one designated or existing use is not being supported and necessary TMDLs are underway or scheduled.

5B Available data and/or information indicate that at least one designated or existing use is not being supported and a review of the water quality standard will be conducted to verify appropriateness.

Melinda McCoy, Environmental Scientist

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